

What is claimed is:

1. A side pumping type DPSS laser, comprising:
 - a first laser chip for generating a pumping light;
 - a second laser chip, although being parallel with the first laser chip, slightly slanted to a predetermined degree so as to avoid a contact with the pumping light;
 - a first and second focusing lens for focusing the pumping lights; and
 - a side pumping medium for forming the focused pumping lights in a beam mode so as to output as a lasing light.

2. The side pumping type DPSS laser of claim 1, wherein the side pumping medium comprises:
 - a laser material manufactured in a plate type;
 - a sapphire plate formed at both sides of the laser material and having an AR coating and HR coating alternatively provided on each side of the laser material;
 - a copper block provided at a top of the sapphire plate for fixing the sapphire plate and transmitting heat to outside;
 - HR coating formed on a rear surface of the side pumping medium for reflecting radiated lasing light; and
 - PR coating formed on a front surface of the side pumping medium for transmitting a part of the lasing light.

3. The side pumping type DPSS laser of claim 2, further comprises a stop coating formed between the PR coating and the laser material for filtering all the pumping light, and a middle portion thereof is removed for filtering all lights except a light in a pumping light lasing mode.

4. The side pumping type DPSS laser of claim 2, wherein a width of the laser material is in a beam waist size of the lased laser.

5. The side pumping type DPSS laser of claim 2, wherein a doping amount of the laser material is a value of the pumping light radiated to and absorbed by the laser material after being transmitted through the laser material.

6. The side pumping type DPSS laser of claim 1, wherein perpendicular component of the light radiated to the predetermined surface is focused and parallel component thereof is proceeded parallel.

7. The side pumping type DPSS laser, comprising:
a first pumping laser diode (LD) generating a plurality of pumping lights;
a second pumping laser diode (LD) provided to be slightly slanted such that the pumping lights are not in contact with each other although being parallel around the side pumping medium;

a first and second focusing lens array having a plurality of focusing lens for focusing a plurality of the pumping lights; and

a side pumping assembly forming the focused pumping lights in a beam mode so as to output as a lasing light.

8. The side pumping type DPSS laser of claim 8, further comprises a stop coating formed between the PR coating and the laser material for filtering all the pumping light, and a middle portion thereof is removed for filtering all lights except a light in a pumping light lasing mode.

9. The side pumping type DPSS laser of claim 8, wherein a doping amount of the laser material is a value of the pumping light radiated to and absorbed by the laser material after being transmitted through the laser material.

10. The side pumping type DPSS laser of claim 8, wherein a width of the laser material is in a beam waist size of the lased laser

11. The side pumping type DPSS laser of claim 8, wherein a doping amount of the laser material is a value of the pumping light radiated to and absorbed by the laser material after being transmitted through the laser material.

12. The side pumping type DPSS laser of claim 7, wherein the focusing lens array focus perpendicular component light radiated to a predetermined surface and proceeds parallel component light parallel.